

## ASSIGNMENT AND AGREEMENT

For value received, we, Mohsen Sarraf, of Rumson in the County of Monmouth and State of New Jersey, and Mohammad Hossein Zarabizadeh, of Woodbridge in the County of Middlesex and State of New Jersey, hereby sell, assign and transfer to Lucent Technologies Inc., a corporation of the State of Delaware, having an office at 600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to a **METHOD AND APPARATUS FOR MULTI-STREAM TRANSMISSION WITH TIME AND FREQUENCY DIVERSITY IN AN ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING (OFDM) COMMUNICATION SYSTEM**, described in an application for Letters Patent of the United States, executed by us on even date herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Lucent Technologies Inc. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

We authorize Lucent Technologies Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Lucent Technologies Inc. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to Lucent Technologies Inc. in the United States and in all countries foreign to the United States, or to such nominees as Lucent Technologies Inc. they may designate.

Sarraf 19-11

We agree that, when requested, we shall, without charge to Lucent Technologies Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.



Mohsen Sarraf

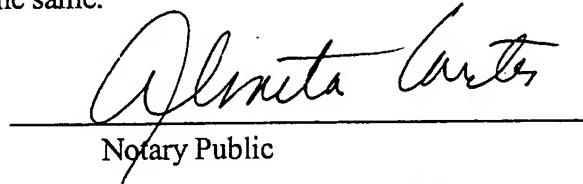
Date: 9/15/99

United States of America )

State of New Jersey ) ss.:

County of Morris )

On this 15 day of September, 19 99, before me personally came Mohsen Sarraf, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Almeta Carter

Notary Public

ALMETA CARTER  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires Dec. 9 2001

Zarrabizadeh  
Mohammad Hossein Zarrabizadeh

Date: 9/15/99

United States of America )  
State of New Jersey ) ss.:  
County of Morris )

On this 15 day of September, 19 99, before me personally came  
Mohammad Hossein Zarrabizadeh, to me known to be the individual described in and who  
executed the foregoing instrument, and acknowledged execution of the same.

Almeta Carter  
Notary Public

ALMETA CARTER  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires Dec. 9 2001

Ryan & Mason, L.L.P.  
90 Forest Avenue  
Locust Valley, NY 11560